IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEB 1 5 2000

In re application of: Sara Lavi

Serial No.:

09/029,479

Filed:

10/21/98

Group Art Unit: 1632

Examiner: Woitach, J

For: MANIPULATION AND DETECTION OF PROTEIN PHOSPHATEASE 2C-PP2CALPHA - EXPRESSION IN TUMOR CELLS FOR CANCER THERAPY, PREVENTION AND DECTECTION

Box Sequence Assistant Commissioner for Patents Washington, DC 20231

SUBMISSION OF SEQUENCE LISTING/STATEMENT

- 1. This replies to the communication from the Examiner in charge of this application, Paper No. 7, dated December 2, 1999.
 - X A copy of the communication is enclosed.
 - 2. I, Amy E. Rinaldo, state the following:
 - 3. Submitted herewith is/are:
 - X A. Sequence Listing(s) for the nucleotide and/or amino acid sequence(s).

Each sequence Listing is assigned a separate identifier.

- X B. A copy of each Sequence Listing submitted for this application in computer readable form.
- ____ C. Preliminary Amendment inserting the Sequence Listing into the application.

CERTIFICATE OF MAILING UNDER 37 CFR 1.8(a) and 1.10

I hereby certify that on the date shown below this correspondence is being deposited with the United States Postal Service in an envelope addressed to: Box Sequence List, Assistant Commissioner for Patents, Washington, DC 20231

37 CFR 1.8(a)

X sufficient postage as first class mail.

37 CFR 1.10*
___ as "Express Mail Post Office to Addressee"
Mailing Label No. _____

Marie M. DeWitt

DATED: February 9, 2000

U.S.S.N. 09/029,479

STATEMENT THAT SEQUENCE LISTING AND COMPUTER READABLE COPY ARE THE SAME

I hereby state that each computer readable form submitted in this application is the same as the Sequence Listing to which it is indicated to relate.

I hereby state that all papers accompanying this submission, or for which a request for transfer from Applicants' other application, introduce no new matter.

The Commissioner is authorized to charge any fee or credit any overpayment in connection with this communication to our Deposit Account No. 11-1449.

Respectfully submitted,

KOHN & ASSOCIATES

Amy E. Rinaldo

Registration No. P-45,791

30500 Northwestern Hwy., Suite 410

Farmington Hills, Michigan 48334

Phone (248) 539-5050

Fax (248) 539-5055

Date: February 9, 2000

1632

8 4.60

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/029,479

DATE: 03/11/2000 TIME: 03:35:52

INPUT SET: S35010.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

ENTERED SEQUENCE LISTING 1 2 General Information: 3 (1) 4 (i) APPLICANT: Lavi, Sara 5 6 (ii) TITLE OF INVENTION: MANIPULATION AND DETECTION OF PROTEIN 7 PHOSPHATASE 2C -PP2CALPHA- EXPRESSION IN TUMOR CELLS FOR 8 CANCER THERAPY, PREVENTION AND DETECTION 9 10 (iii) NUMBER OF SEQUENCES: 20 11 12 (iv) CORRESPONDENCE ADDRESS: 13 (A) ADDRESSEE: Kohn & Associates 14 (B) STREET: 30500 Northwestern Hwy. (C) CITY: Farmington Hills 16 (D) STATE: Michigan 17 (E) COUNTRY: US 18 (F) ZIP: 48334 19 20 (v) COMPUTER READABLE FORM: 21 (A) MEDIUM TYPE: Floppy disk 22 (B) COMPUTER: IBM PC compatible 23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 25 26 (vi) CURRENT APPLICATION DATA: 27 (A) APPLICATION NUMBER: 28 (B) FILING DATE: 29 (C) CLASSIFICATION: 30 31 (viii) ATTORNEY/AGENT INFORMATION: 32 (A) NAME: Kohn, Kenneth I. 33 (B) REGISTRATION NUMBER: 30,955 34 (C) REFERENCE/DOCKET NUMBER: 2290.00037 35 36 (ix) TELECOMMUNICATION INFORMATION: 37 (A) TELEPHONE: (810) 539-5050 38 (B) TELEFAX: (810) 539-5055 39 40 41 (2) INFORMATION FOR SEQ ID NO:1: 42 43 (i) SEQUENCE CHARACTERISTICS: 44 (A) LENGTH: 10 amino acids 45

(B) TYPE: amino acid

46

RAW SEQUENCE LISTING PATENT APPLICATION US/09/029,479

DATE: 03/11/2000 TIME: 03:35:52

47 48			<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
49				RECEIVED TO 1830 TAIL TOOM SPO
50		(ii)	MOLECULE TYPE: peptide	4 2
51 52				
53				3 3 7
54		,		
55 56		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1	
56 57		Asn	Asp Asp Thr Asp Ser Ala Ser Thr A	sp = 50
58		1		0 7.0
59				
60 61	(2)	INFO	RMATION FOR SEQ ID NO:2:	
62	**	(i)	SEQUENCE CHARACTERISTICS:	
63		, ,	(A) LENGTH: 15 amino acids	
64			(B) TYPE: amino acid	
65			<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
66 67			(D) 10F0LOGI: IIHeal	
68		(ii)	MOLECULE TYPE: peptide	
69				
70				
71 72				
73		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:2	:
74				
75			Lys Asn Asp Asp Thr Asp Ser Thr S	
76 77		1	5 1	.0 15
78	(2)	INFO	RMATION FOR SEQ ID NO:3:	
79				
80		(i)	SEQUENCE CHARACTERISTICS:	
81 82			(A) LENGTH: 9 amino acids(B) TYPE: amino acid	
83			(C) STRANDEDNESS: single	
84			(D) TOPOLOGY: linear	
85				
86 87		(11)	MOLECULE TYPE: peptide	
88				
89				
90				
91		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:3	
92 93		Pro	Asn Lys Asp Asn Asp Gly Gly Ala	
94		1	5	
95				
96	(2)	INFO	RMATION FOR SEQ ID NO:4:	
97 98		(i)	SEQUENCE CHARACTERISTICS:	
99		/	(A) LENGTH: 20 base pairs	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/029,479

DATE: 03/11/2000 TIME: 03:35:52

100 101 102 103			(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
104 105 106 107		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Primer"	
108 109 110		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:4:	
111				
112	AGG	ATCAA	GT CATAATGGGA	20
113				
114	(2)	INFO	RMATION FOR SEQ ID NO:5:	
115		123	CROUPING CHARACHERICHTCC.	
116		(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs	
117 118			(B) TYPE: nucleic acid	
119			(C) STRANDEDNESS: single	
120			(D) TOPOLOGY: linear	
121			(b) 10102001. 1211001	
122		(ii)	MOLECULE TYPE: other nucleic acid	
123		,,	(A) DESCRIPTION: /desc = "Primer"	
124				
125		(iv)	ANTI-SENSE: YES	
126				
127				
128				
129				
130		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:5:	
131				
132	GCT	GGAGT	CT GATTTACAAC	20
133				
134	(2)	INFO	RMATION FOR SEQ ID NO:6:	
135				
136		(i)	SEQUENCE CHARACTERISTICS:	
137			(A) LENGTH: 18 base pairs	
138			(B) TYPE: nucleic acid	
139			(C) STRANDEDNESS: single	
140			(D) TOPOLOGY: linear	
141		(22)	MOLECULE TYPE: other nucleic acid	
142		(11)	(A) DESCRIPTION: /desc = "Primer"	
143 144			(A) DESCRIPTION. / Gest - Filmer	
144 145				
145				
147				
148		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:6:	
149		(/		
150	GAA	GTAGT	CG ACACCTGT	18
151				
152	(2)	INFO	RMATION FOR SEQ ID NO:7:	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/029,479

DATE: 03/11/2000 TIME: 03:35:53

153		
154	(i) SEQUENCE CHARACTERISTICS:	
155	(A) LENGTH: 21 base pairs	
156	(B) TYPE: nucleic acid	
157	(C) STRANDEDNESS: single	
158	(D) TOPOLOGY: linear	
159	(11)	
160	(ii) MOLECULE TYPE: other nucleic acid	
161	(A) DESCRIPTION: /desc = "Primer"	
162		
163		
164		
165	(I)	
166	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
167		0.1
168	GTTTGAGACC TTCAACACCC C	21
169		
170	(2) INFORMATION FOR SEQ ID NO:8:	
171		
172	(i) SEQUENCE CHARACTERISTICS:	
173	(A) LENGTH: 23 base pairs	
174	(B) TYPE: nucleic acid	
175	(C) STRANDEDNESS: single	
176	(D) TOPOLOGY: linear	
177		
178	(ii) MOLECULE TYPE: other nucleic acid	
179	(A) DESCRIPTION: /desc = "Primer"	
180		
181		
182		
183		
184	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
185		
186	GTGGCCATCT CTTGCTCGAA GTC	23
187		
188	(2) INFORMATION FOR SEQ ID NO:9:	
189		
190	(i) SEQUENCE CHARACTERISTICS:	
191	(A) LENGTH: 6 amino acids	
192	(B) TYPE: amino acid	
193	(C) STRANDEDNESS: single	
194	(D) TOPOLOGY: linear	
195		
196	(ii) MOLECULE TYPE: peptide	
197		
198		
199		
200	•	
201	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
202		
203	Met Gly Ala Phe Leu Asp	
204	1 5	
205	•	

RAW SEQUENCE LISTING PATENT APPLICATION US/09/029,479

DATE: 03/11/2000 TIME: 03:35:53

206 207	(2)	INFORMATION FOR SEQ ID NO:10:	
208		(i) SEQUENCE CHARACTERISTICS:	
209		(A) LENGTH: 28 base pairs	
210		(B) TYPE: nucleic acid	
211		(C) STRANDEDNESS: single	
212		(D) TOPOLOGY: linear	
213		(b) 101020011 1111002	
214		(ii) MOLECULE TYPE: other nucleic acid	
215		(A) DESCRIPTION: /desc = "Primer"	
216		(M) Biblittion: / dobb	
217			
218			
219			
220		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
221			
222	CGG	GATCCGC ATGGGAGCAT TTTTAGAC	28
223	-	0.110000 1.11000.1001.11 111101.10	
224	(2)	INFORMATION FOR SEQ ID NO:11:	
225	(2)	Intolation for pag 15 no	
226		(i) SEQUENCE CHARACTERISTICS:	
227		(A) LENGTH: 5 amino acids	
228		(B) TYPE: amino acid	
229		(C) STRANDEDNESS: single	
230		(D) TOPOLOGY: linear	
231		(b) 10102001. 1211002	
232		(ii) MOLECULE TYPE: peptide	
233		(II) MODICOLD IIII. populac	
234			
235			
236			
237		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
238			
239		Thr Asp Asp Met Trp	
240		1 5	
241			
242	(2)	INFORMATION FOR SEQ ID NO:12:	
243	(-/		
244		(i) SEQUENCE CHARACTERISTICS:	
245		(A) LENGTH: 27 base pairs	
246		(B) TYPE: nucleic acid	
247		(C) STRANDEDNESS: single	
248		(D) TOPOLOGY: linear	
249		(2)	
250		(ii) MOLECULE TYPE: other nucleic acid	
251		(A) DESCRIPTION: /desc = "Primer"	
252		(,	
253			
254			
255			
256		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
257		,,,,,,,, .	
258	CGC	GGATCCT TACCACATAT CATCAGT	27

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/09/029,479*

DATE: 03/11/2000

TIME: 03:35:53

INPUT SET: S35010.raw

Line

Error

Original Text